

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: "Greg Anders" <anders@autopsy.corp.sgi.com>
Subject: (Fwd) Rendezvous at Foothill swap? (CALIFORNIA)
Message-ID: <9603041353.ZM11002@autopsy.corp.sgi.com>

The donut truck around 8am seems like a good idea. Given the early start one needs to get a look at the good stuff by 8am I'll be ready for lunch.

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Tom Quayle <tquayle@butternet.com>
Subject: Address information - QRP kits
Message-ID: <313B3D5C.5E2A@butternet.com>

Hello:
Can someone provide the address/phone# for the following:
Oak Hills Research
Northern California QRP Club
Thanks,
Tom Quayle - Butte, MT

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Ken Harrison <harrisok@SONOMA.EDU>
Subject: Adios
Message-ID: <Pine.PMDF.3.91.960304132814.10611984B-100000@SONOMA.EDU>

Well, gang... I've enjoyed reading all of the great material here, but it is now time for me to say "good-bye." I am unable to afford the list. It isn't a money thing as much as it is a time thing... I need to use my time to further my scholastic growth rather than the growth of my hobby.

73,
Ken

Ken Harrison --- harrisok@vax.sonoma.edu --- Amateur Radio: N6MHG

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: ADMINISTTRIVIA: List Manners
Message-ID: <9603031158.aa15107@jackatak.theporch.com>

Gang-

I feel a bit uncomfortable having to write this yet again, but recently there have been an unbelievable number of submissions that really need more thought and attention *BEFORE* they hit the list.

It is *NEVER* appropriate to conduct transactions via the list as a whole... and yet several people have submitted a post that says: "Hey... I want the _____ you have. Please send me your mail address."

And just as often, not only do they breach the list etiquette by working out the details of a transaction in public, but as often, they quote the entire message!

People, all any of us is asking is a bit of care and *CONSIDERATION* for the rest of the 900 or so who are currently subscribed to the list. There is *NO* need to over-quote included text when replying, and there is no reason for conducting transactions through the entire list... both behaviors are rude, inconsiderate and do not show your fellow BoatAnchor people the respect you would probably demand for yourself.

Be considerate and help us all maintain the higher level of signal and polite conversation we have come to enjoy...

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com ---- firebotl@jackatak.theporch.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>
Subject: ADMINISTTRIVIA: Subscription time soon...
Message-ID: <9603031209.aa15180@jackatak.theporch.com>

To those who have already taken steps to assure continued distribution of the BoatAnchor list, Phil and I would like to thank you very much...

To those who do not believe we are actually going to do it: guess

again. Sometime over the weekend of March 15, the BoatAnchors list will go to a subscriber-only basis. There is still plenty of time to get your subscription in and be on the subscriber list at March 15.

Phil's address, for contributions/subscriptions is:

Phillip Porch
4328 Estes Road
Nashville, TN 37215-3106

We can also take VISA MASTERCARD DISCOVER AMEX if you will FAX your card number with expiration date to:
(615) 889-6452

The charge will come from "The Bridal Path Wedding Chapel" (hardly a boatanchor place, but I call it home sometimes! ;^) where we have worked out a deal...

And last, for those of you who worry that Phil and I are somehow going to make a ton of money with this arrangement, let's use Jeff's numbers and assume income of \$9600 each year. Any of you out there willing to work SEVEN days a week, 6 hours a day for that kind of money? I sure am not, and we have expenses to pay before there is *anything* left over... and whatever is extra will be used to provide better service, larger archives, and equipment to benefit the list... and NOT for a dream vacation on a warm island. Get real, folks, this list administration is hard work and we do it for FREE, not for money...

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com ---- firebot1@jackatak.theporch.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: john <johnmb@nando.net>
Subject: All right...fess up out there!!
Message-ID: <9603050004.AA01543@nando.net.nando.net>

Who was it that purchased the KWS1 and 75A4 that was advertised for \$600 on r.r.s. ? If your conscience is bothering you, please pack such booty and send to:

johnmb@nando.net
:-)

John Brewer johnmb@nando.net
WB50AU/4 AMI #24
Vintage Gear web page: <http://www.zynet.com/~johnb>

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Psgodwin@aol.com
Subject: B+ Trouble with Valiant TX
Message-ID: <960303161043_339754951@mail06.mail.aol.com>

Hi all, I am helping (?) a friend (W5USM) restore an old TX. He has cleaned it up (unused for MANY years) and we're now trying to get it to perk. I'll admit it's been 25yrs or so since I tried trouble-shooting this kind of stuff. So here goes :

Rig : Johnson Viking Valiant 240-104-2 s/n 3?79.

Problem : Turn on pwr, fuse in primary of T2 blows (a slo-blo lasts a second or three). 5V4 stressed until fuse goes.

What we've done (CW mode position)

9-pin plug (AMP 86P9 - anyone got one of those ?) OUT

- bias supply OK. Audio stages lit and OK (well, no smoke). B+ OK, but little load.

J8, only pins 7&8 jumpered, both 5V4 & bias rectifier tubes pulled

- all filaments light ok. I.e. no short in filament line.

J8 all jumpers in place, both rectifier tubes (5V4 & 6 whatever) plugged in.

- 1.5A fuse blows at pwr on (immediately).

I first suspected the filter cap associated with the 5V4 but it's fine under no-load, so it's not just a voltage breakdown if it is indeed the culprit. I note it's the original type so it's OLD.

Other suspects would be any other bypass caps in RF stages, espec. the non disc ceramics.

He does have the manual so OK to use schematic designators in any replies.

Any other suggestions ? Please e-mail to psgodwin@aol.com

Tnx/73 Paul
KF5PE

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: BA Code Practice Oscillator rebuilt
Message-ID: <9603041503.AA26414@syseng1.se.melpar.esys.com>

Some time ago I mentioned an old tube-type oscillator I picked up from a retired Marine major who had been a Radio Battalion type. This gray, sloping-front cabinet device used a single 117N7GT tube and ran directly from the AC line (no power xfmr). It was manufactured by Telegraph Apparatus Company (not incorporated) of Chicago, Ill., U.S.A.

This weekend I put the finishing touches on it and got it up and running. It needed a new speaker, new power supply electrolytics, a new power supply series resistor, plus I replaced the two 0.01 ufd paper caps in the circuit as well. For those not familiar with it, the 117N7GT is a combination half-wave rectifier and pentode. The circuit uses an audio transformer with a center-tapped primary, with the top going to the pentode plate & screen and the center tap connected to B+. The bottom feeds the grid via a 0.01. A fixed 47K grid resistor is in series with a 100k pot which serves as a tone control. A 10-ohm pot across the secondary serves as a volume control (the wiper drives the speaker) and also has a slight effect on tone (due to the changing load impedance reflected back through the transformer). The key is in series with the speaker (and phones, if connected).

It was necessary to polarize the AC plug to ensure that the common side was always connected to neutral; the AC switch is in the neutral side, BTW, since the line side only connects to the 117N7GT's diode plate. Everything is isolated from the chassis.

When examined with a 'scope, the output looks very asymmetrical in response (kinda "spikey" with a near-sinusoidal negative excursion) but the tone is certainly acceptable. Max volume is sufficient for a good-size classroom.

This will be my "bug demo" oscillator; being old and "hollow-state," it kinda fits with a bunch of old bugs. :-)

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Neal McEwen <nmcewen@metronet.com>
Subject: Re: BA Code Practice Oscillator rebuilt
Message-ID: <199603041833.AA04585@metronet.com>

> Battalion type. This gray, sloping-front cabinet device used a
> single 117N7GT tube and ran directly from the AC line (no power
> xfmr). It was manufactured by Telegraph Apparatus Company (not
> incorporated) of Chicago, Ill., U.S.A.
>

Telegraph Apparatus Co. was a venture of Ted McElory, the worlds champion
radio-telegrapher and landline telegrapher. He was also a typing champion.
This was ted's second go at making telegraph keys and bugs and other assorted
items. The bugs that he made at TACo had a real unusual design.

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: "Bill Moore" <Bill_Moore@mevatec.com>
Subject: BA definition
Message-ID: <9603050041.AA22241@uu2.psi.com>

	Subject:	Time:8:17
OFFICE MEMO	BA definition	Date:3/2/96
Hello everyone		

Im new to this thread and was wondering if there was a solid definition on what
constituted a BA.

thanks

Bill

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Paul Christensen <PaulC@jax.se.continental.com>
Subject: BA e-mail Address Question
Message-ID: <313B8812@se.continental.com>

Is there a command I can enter to get the internet e-mail address from the
postings on BA?

I've noticed that others have been able to reply directly even though I
haven't posted my address in the message body.

-Paul, N9AZ

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: mflicinski@VNET.IBM.COM
Subject: BA Parts available
Message-ID: <199603041439.IAA11814@uro.theporch.com>

I parted out a chassis of a Collins 18S-4 over the weekend and have available the following:

- One ceramic socket for a 1625 - \$3
- Driver transformer, single ended audio (6V6) to P-P 811. - \$5
- Two ceramic 4-pin sockets - \$3ea, \$5 for the pr

Prices are plus postage.

I still have a complete Collins 18S-4 with tubes that needs another home.

Mike K2UXE
Austin, TX
mflicinski@vnet.ibm.com

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: BA SIGHTINGS
Message-ID: <199603041515.JAA15915@ns-mx.uiowa.edu>

I attended a small swapmeet at Underwood, Iowa (near Council Bluffs, Iowa) and have the following to report.

Al McMillan, W0JJK, the former #2 honcho at World Radio Labs was there selling the old WRL maps (the ones we used as Novices in the '50s to keep track of WAS) for \$3.

Dick McKircherer, W0MLY, veteran of many a 1950's era DXpedition was there selling off stuff from years of accumulation including cigar boxes full of old crystals and plug in coil units.

Specific BAs of note were:

SX-43 in dirty but complete condition with manual crying for \$50

HQ-108AC with HT-37, cables, antenna relay and all manuals in good condition asking \$300

SB-101 w/ SB-600 speaker, PS, SB-610 monitor and manuals asking \$150

Morrow "twins" MBR-5 and MB-560A with factory AC supply all manuals and cables for \$65

SB-220 very clean (w/o 10 meters) \$500

SX-99 with manual nice \$65

DX-40 (dirty, but complete) with VF-1 and original manuals \$30

Galaxy V transceiver w/ CAL, VOX, remote VFO, speaker and manuals for \$65

National NCX-5 w/ factory PS and manuals \$65

EICO 7 drift 3 w/ PS \$50

Drake MN-2000 \$100

Collins 32V-1 w/ manual and spare 4D32 in dirty but good condition with the usual cracked dial glass for \$275

Sadly, we had the XYL's sports type car and only brought home some books and one small type boatanchor.

Al, K0AL

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996

From: Kim Herron <kherron@voyager.net>

Subject: Re: BA SIGHTINGS

Message-ID: <199603041717.MAA24986@vixa.voyager.net>

Hi Gang,

Al, K0AL, did something that no self-respecting ham should ever do: Go to a hamfest without a truck.

>I attended a small swapmeet at Underwood, Iowa (near Council Bluffs, Iowa) and
>have the following to report.

>Sadly, we had the XYL's sports type car and only brought home some books
and one

>small type boatanchor.

When I saw that, I felt the urge to relate an experience that I had at the Dayton Hamvention several years back. My buddy, who shall remain nameless, decided that he would go for one day and stay with me at the hotel where I was. He drove his wife's Mazda Miata. In case you're not familiar,

it's a glove box on wheels. He couldn't even bring a suitcase as it doesn't have a large enough trunk to hold one, unless you remove the spare. Anyway to make a long story short, he kept bringing things back to my truck [I had a flea market spot]. Instead of staying one day, he stayed for all three. By the time he got done, I had to follow him back to Akron OH because he had FILLED the Chevy 3/4 ton FULL. I live 350 miles in the opposite direction. Good thing I have an understanding boss. Anyway the moral of the story is: Never go to a hamfest without something big enough to buy all the treasures that you can't live without.

73

KIM

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: kenc@smartdocs.com (Ken Corwin)
Subject: BC-224/BC-348 Receivers
Message-ID: <199603040509.VAA03509@warp10.smartlink.net>

Hello, All-

Revision 1 to the file bc348.history has been posted to the Boatanchor Archives. Revisions include information about the BC-224-A; an additional reference; corrections and additions to the contributor list (I left several names off the original); the chart has been moved up in the file; and minor corrections.

To get the file, do this:

- a. Send an email message to listproc@theporch.com
- b. Leave the subject blank
- c. In the body of the message--> get boatanchors bc348.history

Much information regarding contractor names, and order and serial numbers is still needed. Let me know, also, if you have one of these receivers with a serial number higher than the one listed for your particular model. Also, additional information and corrections to the existing information is really needed. I will keep the list updated.

Thanks,

Ken Corwin (kenc@smartdocs.com)

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Brian Summers <bsummers@dragon.achilles.net>

Subject: BC-348 Help Need

Message-ID: <m0ttYLq-00062RC@dragon.achilles.net>

To multiple recipients of list

I have a BC-348-R with a power supply built into the space where the dynamotor was. Receiver works just fine on AM, but on CW the received note is not as clear as I'd expect.

Using a signal generator, and monitoring the demodulated audio with a scope, I've observed the following.

1. With a modulated RF input the demodulated audio signal is clean and stable.
2. With an unmodulated RF input, and the BFO switched "on", the demodulated audio can be seen to have some sideways jitter on the scope. Maybe best described as "FM'ing".

Following has been done:

1. 2nd IF-C.W.Osc tube VT-70 replaced (of course!)
2. All decoupling and bypass capacitors in the receiver have been replaced, including the .01uF ident number 11-12 which is in the BFO can.
3. Even ran the BFO osc tube heater off 6.3V DC to try to ensure no cathode heater leakage, even though the tube was replaced.

No improvement from any of the above.

I'm now wondering if perhaps the e-m field generated by the power transformer is possibly causing the problem. Before I pull out the PSU and physically separate it from the rest of the receiver I thought I'd put out a plea for help on this list. Please note that I'm new to the list, so if this has come up in the recent past then bear with me.

Thanks folks.

Brian, VE3JKZ.

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996

From: Jim Dillon <beadgal@ptialaska.net>

Subject: RE: BC-348 Help Need

Message-ID: <01BB0997.029D5E40@juneau_75.dialups.ptialaska.net>

Hi Brian and wrinkle fans-

Before going too much farther, make a quick resistance check from the B- = (minus) center tap of the power transformer to chassis ground. It should = be about 50 ohms. If the resistance is near zero, the original modifier = wired the AC supply in wrong. It should not be grounded to chasis. =

Negative lead (transformer

Center Tap goes to junction of 2 small hash chokes (one of which has a = 50 ohm to ground on the other side) and a 250 Kohm going to (through a =

1meg and 250k)the VT-152 control grid. Then start subbing i.fs,converter = tubes for

h-k leakage. Sub, don't bother testing. =20

Jim Dillon WL7CMQ

Still seeking NC-100X, other tuning eye sets

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996

From: lblaske@pclink.com (Lee Blaske)

Subject: BC-348 parts needed

Message-ID: <199603032036.0AA01587@pclink.com>

(For some reason, I didn't get BA Digest #510, so I don't know if my post made it into the system. Please excuse the duplication if you've already seen this.)

I need to find a front panel handle with mounting hardware and the long bolt (with knurled knob) for my BC-348 undergoing sprucing up.

Also, I'd eventually also like to find the dynamotor and mounting plate for this unit. I believe it's a DM-28.

Finally, I need the eight pin plug. Are these still being made? If so, where do you get them.

Thanks!

73's,

Lee Blaske AA0EF

19555 Excelsior Blvd.

Excelsior, MN 55331-8720

(612) 474-4919

lblaske@pclink.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996

From: Michael.J.Knudsen@att.com

Subject: Re:BC-348 sin/dou end

Message-ID: <9603042007.AA21906@bock.ih.att.com>

WL7CMQ's posting reminds me of a couple items.

The HQ-120 and HQ-129X are essentially the same rx but the 129 uses single-ended tubes (there are other improvements too), except both use the 6K8, a great tridoe-hexode converter that was never made in single-ended format.

As for the SX-110 using octal tubes well into the miniature era,
how about some 1941 Philcos (5 years into the octal era) using
42 and other 6/7-pin jobs from the early '30s?
We've discussed this before, and the consensus seems to be just what
Jim said -- somebody had a warehouse full.

Hmmm, I've even seen Philco chassis with Loktal, octal, and 6-pin.
The 42 is just a 6F6 with 6 pins so why not...? 73, mike k aa9rg

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Allen Tucholski <allent@en.com>
Subject: BC-459-A (ARC-5) Transmitter Forsale 7.0 - 9.1 Mhz.
Message-ID: <199603040307.WAA00505@en.com>

Hello All,

I have come across a very nice BC-459-A (ARC-5) Transmitter.

Signal Corps U.S. Army Radio Transmitter

Freq Range 7.0 - 9.1 Mhz

Serial Number 31-384

Black in color, (wrinkle paint) original.

Tube's 2ea 1625's, 1629, 8000kc xtal, and VT37

Comes with the MT-69/ARC-5 slide mount. (Radio slides into
this mount and locks in)

Radio is very, very clean, cosmetic condition excellent.

Tube covers intact.

Missing the aluminum bottom plate.

Looks like the unit was put on the air by a ham, since
solder connections were made to the
rear connector. (very neat quality soldering) wires were cut
off outside of the unit.

Also the unit has (2) push on antenna connectors on the
front panel.

I believe the unit came with one. If this was added later,
it was a neat job.

All wiring under the radio is original, Oscillator cover was
never removed, all alignment
appears to untouched.

A nice Transmitter in very good condition.

Best Offer + Shipping

Allen

NASA Lewis Research Center
Cleveland, Ohio

e-mail
allent@en.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Paul Christensen <PaulC@jax.se.continental.com>
Subject: RE: Books for Sale
Message-ID: <313A3C24@se.continental.com>

Price \$34.00 (\$US)

=====

Larry, va3lk / wa3zia

I'll take it Larry. Where do I send the funds?

-Paul, N9AZ

paulc@jax.se.continental.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: SCOTTPAUL@aol.com
Subject: British tube substitution
Message-ID: <960303165116_437048062@mail02.mail.aol.com>

Many (nearly all!) pre-WWII British tubes have bases that are...peculiar...to British usage. While I can tell you hwat these tube do, you may need to get them in Britain. I'll tell you a place to write to near London. The catch is, you need to go to your bank and get a foreign draft in pounds Sterling,

and the bank will probalby charge you about \$30 for doing this. It's an irritating rip-off and raises the cost of getting this stuff here. Therefore what is best is to do a single large order.

KTW62 - VR100 probably a remote cutoff pentode, octal
X66 - VR99 probalby a triod-hexode mixer, octal
DH63 - NR68 equivalent to a 6H6
KT63 - NR85 equivalent to a 6F6
U50 - NU20 equivalent to a 5Y3
VU71A no clue
NR 64 no clue
NR78 no clue

The "no clue" means nothing like it is in my mid -fifties comprehensive British listing. The "probably" means that a similar tyupe is what's indicated. For example, KTW61 and 63 are pentodes as indicted, but '62 isn't listed.

The place to write to is

Colomor (Electronics) Ltd.
170 Goldhawk Road
London W12 8HJ
UK

They may offer substitute types, but I am told their recommendations are accurate, even though the type numbers for the substitutions are often quite different than what you start with. My experience is that their prices are reasonable.

Good luck!

scott robinson
scottpaul@aol.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: David Adams <dave@flowserver.stem.com>
Subject: Cabinets needed
Message-ID: <9603042020.AA03606@flowserver.stem.com>

Wanted:

Cabinet for a Hallicrafters S-27

Cabinet for a Collins (motorola) R-390

Dave

PS - Subscription money is on the way. I'm mostly against the concept, but can't cut off a valueable list like this.

I'll just think of it as a magazine subscription...

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Paul Thekan <Paul.Thekan@pgtp.varian.com>
Subject: CHESTS CH 27 & CH 56
Message-ID: <2.2.16.19960304194419.1d17bd90@eimac.cpii.com>

Hello to all

Would anybody out there have any dimensional information on these chests . They are used with the SCR 177 and 188. The CH 27 housed the BC 191 and the CH 56 housed the BC 312 & BC 314 receivers. Thanks to Ray Mote for the chest identifications. Would appreciate any help or advice.(other than to forget it)

Thankyou
Paul N6FEG

Paul Thekan - Speaking for Himself
Paul.Thekan@pgtp.varian.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: hinec@ccgate.dl.nec.com (Cory Hine)
Subject: CLEANING PROCEDURES
Message-ID: <9602048259.AA825973046@smtpgw.ccgate.dl.nec.com>

All:

I will try to describe the "best", but not necessarily the only way to clean electronic equipment. This is the method described by Dennis Brothers in relation to Collins radios. First, blow off all the filth you can with an air nozzle. He then recommends spraying on Prep-Sol, which is a degreaser and solvent used in the process of painting cars. I have used Clear-Magic with great success. It removes all the grunge without hurting the paper coil forms. Use a brush to scrub any particularly dirty areas. Then rinse...I have used a hose, and distilled water. Either seems to work well. Then blow off all the

water you can with high-pressure air. Avoid breaking the meter lens!! (I have done that!) If you get water in the meter, pull out the pilot light...it will come out during the drying process. Now put the radio in the oven at 120 to 140 degrees F. No hotter, as you will melt the plastic. Bake for an hour, and you will find you have a completely dry and operational radio, ready to troubleshoot and tune. Note: this is on Collins...other radios may take longer.

The first time, I was reluctant to pour water onto a prize piece of equipment. But I have used this method many times, and it has always worked. Incidentally.. do all of this by hand...don't use a dishwasher, or other high pressure system. Disclaimer: if you mess up a perfectly good piece of BA equipment, you are on your own>>>

Cory/N2AQS

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>
Subject: Drake T4-XC mic. gain levels
Message-ID: <199603041805.KAA00404@mozart.bcit.bc.ca>

I am using a Drake T4-XC transmitter with a Shure 444 microphone.

The problem I am having is the microphone output level does not seem to be high enough to drive the TX to full output.

With the gain turned up to about 10 o'clock, the current reading on the final tubes peaks to a maximum of under the .15 amps as indicated on the meter. The manual suggests that peaks of .15 amps would be optimal. With the gain advanced further the readings do not change any.

This corresponds to about 40 watt RF out peaks as indicated on an RF power meter.

Some reports that I have received indicate that audio is under modulating. However the audio quality reports are good otherwise.

I have tried other 444 mics with similar results.

It seems to me as though the AGC may be kicking too early, but I am not sure though.

Would anyone have suggestions as to what could be the problem or if there is an internal adjustment or something else that I could have overlooked?

Thanks,

Colin

cschmutter@bcit.bc.ca

Colin Schmutter
Networks and Communications
British Columbia Institute Technology
CSCHMUTTER@BCIT.BC.CA

(604) 432-8858

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: jlivingston@cix.compulink.co.uk (John Livingston)
Subject: Eddystone RXs
Message-ID: <memo.309773@cix.compulink.co.uk>

I haven't seen any mention of the famous (in the UK at least) Eddystone range of receivers in the BoatAnchors. Could it be that very few found their way to the US ?

I have a Eddystone 680X, and it is a wonderful device. I guess it is one of the most visually attractive RXs ever, with a very large and open slide rule dial, and sculptured case outlines. Could it be that there are very few still in existence ?

John Livingston	jlivingston@cix.compulink.co.uk
G4FDD	G-QRP 431
+44(0)1904 794305	FAX +44(0)1904 657778

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: jmartin@hrlban1.aircrew.asu.edu
Subject: Eico RC bridge
Message-ID: <SA39+wYlCla@hrlban10.alhra.af.mil>

Dan Kerl wrote:

I use an old Eico RC bridge (the one with the eye tube) to avoid this situation. This instrument includes a leakage test that does allow the user to apply rated voltage to the part. It's especially useful for reforming electrolytics.

=====

I have one of these Eico RC bridges too; I found it as an unbuilt kit at an antique radio swap meet a few years ago, enjoyed building it, and use it a lot to check and reform capacitors. The Eico will apply up to 500 VDC during the

leak test. It also will measure resistances up to 500 megohms, and inductance as a comparator with a known reference. A very useful piece of gear IMHO.

73, John Martin

jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996

From: sinned@VNET.IBM.COM

Subject: Elenco Model 77 Xmtr

Message-ID: <199603042055.0AA24470@uro.theporch.com>

This unit + manual is available for aquisition. I would prefer to find it a new home in the Dallas/Ft.Worth area rather than try shipping it. It is complete and intact, although I have not even put AC to it. I will trade it for military HF xmtr, homebrew xmtr(pre WW2 style), old triode xmit tubes, etc.

Dennis Brady KC5EPZ

Irving, Texas

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996

From: kenneth4@ix.netcom.com (Kenneth W. Anderson)

Subject: Empire of the Air

Message-ID: <199603031758.JAA06021@ix5.ix.netcom.com>

Edward R. Hamilton's latest catalog still has Empire of the Air in hardcover for only \$5.95 plus hundreds of other closeouts and overstock books. For a catalog write to:

Edward R. Hamilton - Bookseller

Falls Village, CT 06031-5000

(no phone #, mail only)

Ken, KG0XP,

Broomfield, CO

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996

From: mirage!pamars@Simba.AGN.NET (P.A.Marshall)

Subject: Enigma question

Message-ID: <9603050100.AA29908@mirage>

Some time back there was talk of having a go at the dedication in the front of 'enigma'. Did any of the few having a working enigma

get anything out of it? If not, was it due to a incomplete set-up description?

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org
1+219.665.5072 Mirage Computers, Inc. pamars@mirage.angola.in.us

"The lyf so short, the craft so long to lerne." - Chaucer

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: sinned@VNET.IBM.COM
Subject: Filament life question
Message-ID: <199603041957.NAA22231@uro.theporch.com>

Is it more damaging to thoriated tungsten transmitter tube filaments to be turned on/off frequently or should they be left on between times of actual use? I use a filament power up sequence that gives 30% voltage for 3-sec. before full voltage. The tubes I'm using (808's) are over 50 years old, so I'm real interested in anything that will help them last another 50 years...(by now your probably thinking "if this guy is worried about that, why don't he just get a new rice-box and be done with it!!") My 808 rig is my 'daily driver'. There's just no joy to be had from a rice-box. I get sleepy just thinking about using a Kenyeacom, so it's BA's or nothing for me. I would appreciate some comment about this from the BA community. I've read several tube articles/books but none state clearly either "don't do it" or "it's O.K. and won't shorten tube life". Thanks
Dennis KC5EPZ

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Michael Crestohl <mc@shore.net>
Subject: FOR SALE: 1950s US AIR FORCE "ON-THE-JOB" RADIO REPAIR MANUALS
Message-ID: <199603050100.UAA04832@northshore.shore.net>

FOR SALE: MISCELLANEOUS AIRFORCE 'ON-THE-JOB' RADIO TRAINING MANUALS

I found several of these from the 1950s in an estate. They are very interesting to anyone into military electronics of that era.

AIRCRAFT RADIO REPAIRMAN (GENERAL RADIO EQUIPMENT)	1956	\$10.00
AIRCRAFT RADIO REPAIRMAN (COMMAND RADIO EQUIPMENT)	1956	\$10.00
AIRCRAFT RADIO REPAIRMAN (three volumes)	1954	\$15.00
AIRCRAFT ELECTRONIC NAVIGATION EQUIPMENY REPAIRMAN (SHORAN)	1956	\$8.00

GROUND COMM EQUIPMENT REPAIRMAN (LIGHT) (VHF, UHF) 1956 \$15.00

If interested please reply by e-mail.

73,

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Michael Crestohl <mc@shore.net>
Subject: FOR SALE: MILLEN GRID DIP OSCILLATOR - MISSING COILS!!
Message-ID: <199603041329.IAA26782@northshore.shore.net>

I have a nice clean MILLEN G.D.O. but unfortunately it is missing the coil set. I'll sell it for \$35.00.

If interested reply by e-mail.

73,

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Gary Mitchelson <garym@cais.cais.com>
Subject: FS: Manual for GLR-9
Message-ID: <199603050009.TAA00429@cais.cais.com>

-- [From: Gary Mitchelson * EMC.Ver #2.5.02] --

I know it may not be a boatanchor (but have you seen a GLR-9 in it's glory, very large) but in my spring cleaning I found a complete (as far as I can tell) tech manual. It is over 300 pages.

Any reasonable offer will be considered (it may cost more just to mail the thing)

--
Gary Mitchelson
N3JPU
garym@racalrecord.com

Racal Recorders, Inc.

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: midshires@cix.compulink.co.uk (Andrew Emmerson)
Subject: GC10A, etc..
Message-ID: <memo.303894@cix.compulink.co.uk>

Nothing strange about these really -- they're dekatrons, in other words an early form of counter display, very popular in the early 1950s for particle counting in atomic research establishments. British Ericsson was one of the key makers of dekatrons in Britain, if not _the_ lead designer.

You mount them in a panel with the end of the tube sticking out through a round hole. The hole is surrounded with a dial marked 0,1,2,3,4,5,6,7,8,9. The tube shows the count indication by one of the pins being surrounded by an orange glow and this is referenced to the appropriate digit on the circumference.

I've got an old dekatron counter (I think it's called a register) made by Labgear which I must fire up again. I like dekatrons... there almost as nice as nuvistors and fetrons!

73, Andy G8PTH.

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: "William C. Robbins" <billrobb@serv01.net-link.net>
Subject: Heath Manuals-Last Call
Message-ID: <199603032356.SAA05138@serv01.net-link.net>

The following Heath manuals are being offered at ONE PRICE for the entire lot. Make offers. Shipping additional. All are singles unless noted.

Quantity

GD-125	2	Q Multiplier
GR-91		General Coverage Receiver
GW-31	5	Hand-Held Transceiver
HN-31	2	Antenna Dummy Load
HW-12A		75 Meter SSB Transceiver
HW-17	2	2 Meter Transceiver
HW-17(A)	2	2 Meter Transceiver
HW-19	3	10 Meter Transceiver (Lunch Box)
HW-22A	2	40 Meter SSB Transceiver

MT-1 2 Cheyenne Transmitter
PM-2 3 Mobile Tuning Meter
SB-600 Communications Speaker
XP-2 Power Pack For GC-1 Receiver

Bill

William C. Robbins, WA8CDU ***Heathkit Collector***
billrobb@serv01.net-link.net

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: Japanese Tube UZ133D
Message-ID: <199603042348.SAA31585@raven.cybercomm.net>

A friend of mine is looking for a UZ133D Tube for a Japanese surplus
radio..Can anyone offer some leads, prices and/or the tube itself?

Steve, WA2NHZ

Looking for: 1. Johnson VF-122 VFO
2. BC696 / T-19 Command Xmtr

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: mflicinski@VNET.IBM.COM
Subject: Just the 1625 socket left...
Message-ID: <199603041629.KAA14684@uro.theporch.com>

Thanks for the many responses to the few parts out of an 18S-4.

Just the one 1625 socket (ceramic) remains.

Mike K2UXE
mflicinski@vnet.ibm.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: lkayser@WorldLink.ca (Larry Kayser)
Subject: LA surplus stores
Message-ID: <9603041901.AB13618@beacon.WorldLink.ca>

boatanchorites in LA, SURPLUS STORE information needed.

I am visiting LA on business next week, will be touring the sites on Monday March 11 all day. I have the addresses for Davilyn Corp, Apex Corp and C&H Sales, Thank Goodness for Thomas Brothers Maps.....

Need more information about a military surplus store near La Mirada but on the Orange county side. Name and address would be of interest, store has a large window display.

Other good sources will be appreciated very much. The good news is I will provide an update of my tour to Boatanchors after I get home.

areas of interest Clandestine radios, crypto stuff, HF transmitting parts etc. a mint R392A in original crate for \$50 would only make me cry a lot, but I have no way to drag it home.....but I sure as heck would try to work out a way!!!!

Good places within about 100 miles of downtown LA are of interest. I am also interested in finding any locations where some of the older clandestine radios might be on display.

Larry
va3lk / wa3zia

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Manual needed: Clegg Interceptor
Message-ID: <m0ttaJG-000TwXC@spider.lloyd.com>

My new (to me) Clegg Interceptor feels all alone and incomplete without its operating and service manual. Anyone "out there" got one they can copy and send so the Interceptor will feel whole again?

Copying, mailing, and nuisance fees gladly paid. Of course an original manual, if anyone has one they don't want, would also be warmly received.

Thanks and 73,

Jim - km6nk

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: paul Veltman <veltman@netcom.com>
Subject: March Livermore Report
Message-ID: <Pine.3.89.9603031529.A17293-01000000@netcom5.netcom.com>

Hi Gang,

Well, we're home from Livermore. The day started out searching for a parking space. That swap is so popular that all 3 parking lots were filled with buyers and I had to orbit around for a while to get a space.

There were a few boatanchors. There was a Realistic SW reciever on a table for \$45 and several Transoceanics in various states of repair for \$100 to \$250. There was a Collins S-Line station in fair condition including 75S-3, 32S-3, 312B-4 and Power supply with a 30L-1 and an antenna tuner for \$1500. At that price, this stuff shouldn't attract any interest. I didn't ask what the price of Drake 2B or the Swan 500 on the same table was.

There was also some of Military type stuff for sale, but the majority of sellers were selling computer stuff. I would say that, for the most part, most sellers were just trying to peddle junk.

I was chatting with one of my neighbors who also frequents these swaps, and up walks Paul Thekan, so the 3 of us had a nice eyeball ragchew. Then I ran into Jeff Anderson and we wandered about for a little while and then left.

What followed me home?, not much. 3 manuals for \$1 each, 6 little parts bins at 3 for \$1, and 50 HD 3 1/2" diskettes for \$5.

Next week, the opening of Foothill. I have fresh batteries in the flashlight, and I need to set my alarm extra early. This year, I'm going to wait until the rains stop before I start selling.

73

Paul WA6OKQ

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: March Livermore Report
Message-ID: <m0ttQId-000TwTC@spider.lloyd.com>

Some additions to Pauls report on Livermore....

>

> At that price, this stuff shouldn't attract any
> interest. I didn't ask what the price of Drake 2B or the Swan 500 on
> the same table was.

I believe I saw the same table. That was a Drake 2A and 2BQ (not 2AQ) for \$160. The Swan 500 I saw had a price tag that I think was in the \$125 - \$150 range, however I didn't see a power supply to go with it. The 2A was certainly tempting....

My take on today's Livermore was that if you were looking to get into vintage VHF gear, this was a great swap to addend.

I saw more Gonset Communicators, both 6 and 2M models, than I've ever seen at any single swap....must've been half a dozen of the things. Also saw a Gonset GC-105 (do I remember the model number correctly?) which was for 2M. I saw a very rare hallicrafters SR-34 6 and 2 transmitter/receiver change hands. One fellow found a funky little 2M AM transceiver by a company I've never heard of and whose name I don't remember. And in an unadvertised special, a Clegg Interceptor (6 and 2 receiver) in *nice* condition followed me home.

I saw a very much unloved and unwashed SX-100 Mark 1A for \$90. Everyone was passing this one by because it just looked terrible. However, upon close inspection, if you peered past the dirt and grunge, it was in very nice condition and would have cleaned up to look damn good. The case had a few scratches and the large knobs were missing the metal inserts. It would have followed me home if I hadn't been short on cash.

>

>

> Next week, the opening of Foothill. I have fresh batteries in the
> flashlight, and I need to set my alarm extra early.

As often as I used to go to Foothill when I lived in the Bay Area, it's still hard for me to grasp the idea that if you arrive by 5:00AM, you're already late.

73,

Jim - km6nk

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: buska@aaic.advantest.com (d.buska@advantest.com)
Subject: More on 6012 Tube!
Message-ID: <96030420375971@aaic.advantest.com>

As an after thought on my last request for the 6012 information I checked my Newark catalog. They do list the 6012 as a Richardson tube going for \$182.00 Looks like these shouldn't go to the dumpster anytime soon.

What are these babies.... must be gold in them there vacuums!

Don N900
d.buska@advantest.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: "Integration Area" <integrat@usr.com>
Subject: Motor-Generator speed regulator
Message-ID: <9602048259.AA825973055@robogate.usr.com>

Thank you to all that replied with some "stuck screw" information.

Now I have run into another, potentially bigger, hurdle in my restoration of a Navy TBS-6 motor-generator.

The generator end was apparently given a good whack at some time in its life, denting in the end cap covering the speed regulator. I did not think the dent was all too serious until I took a look at the innards (hint - use one of those oil filter clamps to take off rusty motor-generator end caps). The regulator was shattered.

A quick look in some motor books revealed no information on regulators, so I have had to make a guess at how it works. Tell me if I am correct...

The shaft of the motor-generator passes thru a bearing and connects to the speed regulator. The spinning portion of the regulator has a springy bit of steel, positioned so it runs perpendicular to the shaft, with two brass boxes towards the outer ends. In the middle of the springy bit is a small pad, on the center line of the motor-generator shaft. The fixed portion of the regulator is screwed to the end casting of the motor-generator and has a knob for setting the speed. Turning this knob moves another small pad closer to the one on the spinning springy thing.

Apparently, as the motor speeds up, the brass blocks on the springy bit move out. This moves the center pad towards the fixed pad by lever action. If the speed is too great, I suppose the spinning pad and the

fixed pad touch, with the resulting friction slowing the motor down.

Do I have the right idea here?

Now my questions are...

Does (long shot) anyone have a junk TBS motor-generator?

Might this regulator be a standard General Electric part I could pull from some other motor? If so, how can I find the part number? Does anyone have a big GE motor catalog from the late 1930s?

P.S. Yes, I am always looking for "William Donzelli" type Navy transmitters, especially low frequency ones from the 1930's. I am also looking for "Sheldon Wheaton" style direction finding equipment as well.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Engbert Oord <engbert.oord@jet.uk>
Subject: Mystery tubes
Message-ID: <9603041020.AA29701@jet.uk>

Hello anchorites

I have in my possession a number of rather weird tubes, to me that is.

They all have two things in common :

- a- they were made by Ericsson.
- b- I could not find any reference for any of them.

They are : GC10A, GC10B, GC10C, GC10D, GC10P, GS12B & GS12D.

Their internal structure, if visible, is nothing like the 'normal' tubes we all know. The GC10P is a 7 pin miniature and has a ceramic structure inside it into which all the connections with the base disappear. From the top one sees a large number of pins arranged in a circle. The GC10P's have a paper label attached with DEV LAB SAMPLE printed on it. I don't know whether this refers to Ericsson's own lab or to someone else's. Anybody who knows what these tubes are ?

Greetings

Engbert Oord , G7THB
JET Joint European Torus, Culham ,UK
Email : eo@jet.uk or engbert.oord@jet.uk

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Chuck Penson <penon@sci.mus.mn.us>
Subject: Re: Mystery tubes
Message-ID: <313B040B.7D37@sci.mus.mn.us>

Engbert Oord wrote:

>

> Hello anchorites

> They are : GC10A, GC10B, GC10C, GC10D, GC10P, GS12B &

> GS12D.

These are glow-transfer counter tubes. They were used in early
frequency and event counters. Typical count rates to about 20 kc.

The tubes are filled with neon, which causes one of the pins on the
end to glow. Through a very clever arrangement the glow can be
pulled (or transferred) from one pin to the next, hence the name. In
spite of the number of pins visible in the tube, only ten were
designed to provide an indication.

I have a whole book about these. If you are interested I can copy a
few pages for you.

--

Chuck Penson
Education Division
Science Museum of Minnesota

penon@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Michael.J.Knudsen@att.com
Subject: Re: Mystery tubes
Message-ID: <9603041732.AA21788@bock.ih.att.com>

Yes, these counter tubes were often referred to as "Burroughs tubes" after the adding-machine and early computer pioneer company that made them.

Oddly, on joining Bell Labs in '74 I was given a small handbook on patent procedures, based on an example whereby Bell Labs invented the Burroughs tube. Maybe the new American tradition of inventing things for others to make (like VCRs) is older than we think?
A truly Lucent device -- 73, mike k aa9rg

PS: I've seen these tubes in movies of early rocket launches and such. Not sure I ever saw one in the flesh (glass).

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Andy Howard WA4KCY <102452.362@compuserve.com>
Subject: Need S-20R Power Transformer
Message-ID: <960303180645_102452.362_DHT71-3@CompuServe.COM>

Wanted: S-20R Power Transformer.
Andy Howard, WA4KCY
102452,362@Compuserve.com

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: John Shriver <jas@shiva.com>
Subject: nefarious Micamold capacitors
Message-ID: <199603041530.KAA07745@shiva-dev.shiva.com>

I was browsing through some new acquisition's of 1950's magazines, and noted some interesting things in capacitor ads.

First of all, the nefarious Micamold caps were cased in bakelite. That's one of the original plastics, very strong (if brittle), but probably not the best thing for sealing something water-tight.

More interesting was an advertisement from Mallory capacitors. This was for their early caps with "filled" ends, which were filled with "Malloene." (Probably an epoxy.) They pointed out that no molded capacitor can have a good seal to the leads. If it did, the plastic

would also form a good seal to the metal mold, which would be rather disastrous.

This explains a lot of why the mylar wrap & fill, and the epoxy-dipped, capacitors that we buy now are so much more stable and durable.

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: "Nickels, Bob" <RNickels@P16.IL50.micro.honeywell.com>
Subject: Pawn Shop hamfesting
Message-ID: <313B3C57@mail_gw.micro.honeywell.com>

I knew I'd seen those odd square rear-panel holes somewhere before...

My buddy Chuck, KE9HO and I decided to ply the pawn shops of Rockford IL in search of BA treasures on Saturday, and we weren't disappointed. Under the counter, facing the wall, was a metal box of suspicious dimensions and a couple of telltale terminal strips visible. \$25 later, Chuck was the proud new owner of an RME 4300 receiver!

Aside from needing a bath (who wouldn't?) and adjusting the tension on the planetary dial, the RME was soon copying local AMers on 75M.

So, don't overlook these fine establishments as a possible source of BA goodies. Or, on second thought....nevermind!

73, Bob - KE0T

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: bill@texan.frco.com (William Hawkins)
Subject: Re: PP-621/URR in R-389, R-390, and R-391
Message-ID: <9603031837.AA14041@texan.frco.com>

This is the mod that changed the 20 amp 28VDC fuse for the dynamoter that could replace the PP-621, into a fuse for the B+. I have a 390 that must have been modified in the field, 'cause I don't think they would'a used that much black tape back at the factory. Seems to me it was done by lifting the HV winding center tap from ground and tying it to the dynamoter power lead that went back to the 20A fuseholder, then tying the other end of the fuseholder to ground. An unmodified power supply, with the HVCT still tied to ground in the PP-621, would bypass the fuse.

Dennis, is your power supply damaged (like, how did you become aware that the fuse was bypassed), or do you just want one that is modified?

I'll trade you a good unmodified supply for a modified one.

Bill Hawkins

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: dgibbs@rational.com
Subject: Re: PP-621/URR in R-389, R-390, and R-391
Message-ID: <Chameleon.960303153850.dgibbs2@>

Bill,

Actually, I don't believe this is the case. One of my R-391s has the MWO number stamped on it, yet it retains the original 20AMP fuse. The mod added a third fuse, marked "H.V." Also, the manual I have that mentions the mod doesn't say anything about replacing or changing the existing 20AMP fuse. I wonder if perhaps your unit originally did not have the B+ fuse, and never had the MWO performed on it. Perhaps an earlier owner performed this himself. That would explain the excessive amount of tape...There is no tape at all on my unit marked with the MWO number on it.

Do you actually have anything that shows the MWO involved changing the existing 20AMP fuse?

My power supply appears to be actually damaged, presumably due to this problem. It appears that some of the transformer windings have burned up.

Dennis
dgibbs@rational.com

-----Original Message-----

This is the mod that changed the 20 amp 28VDC fuse for the dynamoter that could replace the PP-621, into a fuse for the B+. I have a 390 that must have been modified in the field, 'cause I don't think they would'a used that much black tape back at the factory. Seems to me it was done by lifting the HV winding center tap from ground and tying it to the dynamoter power lead that went back to the 20A fuseholder, then tying the other end of the fuseholder to ground. An unmodified power supply, with the HVCT still tied to ground in the PP-621, would bypass the fuse.

Dennis, is your power supply damaged (like, how did you become aware that the fuse was bypassed), or do you just want one that is modified? I'll trade you a good unmodified supply for a modified one.

Bill Hawkins

-----End of Original Message-----

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>
Subject: Precision 660 Tube Tester
Message-ID: <199603041129.FAA19617@legend.txdirect.net>

This little "parts" jewel followed me home a couple of weeks ago. It seems to be complete but the meter gives every indication of being toasted. The innards look OK, i.e., nothing visually wrong, except there is some chipping off of the ceramic control. Plugged it in, no smoke, and the pilot light lit up, but no meter indication. No further checks made. Someone removed all the fiber covering from the wood and remounted two new hinges to the back. Other metal parts are rusty, and handle is broken but wired together. Rool chart is good and it has a supplemental tube data chart. To sum it up in fleaspeak, it looks like it was "road hard and put away wet". If someone needs this one for a spare parts or even a project, it can be had for \$13 plus shipping or trade for whatever OBO.

73, GARY

=====
<<<<<<<< T00 many projects, NOT enough time! >>>>>>>>

Gary H. Harmon, Jr., K5JWK gharmon@txdirect.net
6302 Robin Forest K5JWK@K3WGF.STX.USA.NOAM
San Antonio, TX 78239 (210) 657-1549

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: kenc@smartdocs.com (Ken Corwin)
Subject: R-13 Receiver
Message-ID: <199603032217.0AA19016@warp10.smartlink.net>

Hello, Dave-

I have a lot of information on the A.R.C. R-13B and R-32 navcom receivers, but I am not at all certain how an R-13 with a dial is set up. If there was an R-13, the R-13B is at least the third iteration of the series.

You may be interested in the following two paragraphs from the A.R.C. Type

15D Handbook:

"7. USE OF TYPE R-13B VHF RECEIVER AS PART OF STANDARD MILITARY INSTALLATIONS.

"The Type R-13B VHF Receiver of this equipment may be operated in any stall of any standard military installation of SCR-274N, AN/ARC-5, or ATA/ARA. It will be necessary to add an antenna connection and to replace the Control Unit dial with one calibrated for this VHF Receiver, A.R.C. part number 12508.

"8. PROVISION FOR SUPPLYING POWER TO AUXILIARY EQUIPMENT.

"The receptacle on the front of the R-13B Receiver is provided to permit connection to one or more ARC VHF Transmitters, such as T-11B or T-13A. High voltage and low voltage power is delivered to such transmitters from this receptacle; relays in the transmitter operate to switch high voltage power between transmitter and receiver under the control of the "push to talk" microphone button. Transmitter side-tone may also be brought to the telephone line through this receptacle. When no transmitter is employed, terminals A and E of this receptacle must be connected together by the use of ARC wired plug #11934, normally supplied installed in each Receiver in order to complete the high-voltage circuit to the Receiver.

"High voltage dc power (up to 10 ma at approx. 250 volts) may also be taken from this receptacle to supply other auxiliary equipment, such as ARC Marker Beacon Receiver R-20."

As nav-comm units, these receivers were designed to do a number of things. The R-13B receivers have a 6-contact top-center keyed receptacle on the front panel (where the dial used to be). I suspect that your missing adapter box would be just like the one in any ARA, SCR-274N, or ARC-5 receiver and wired to provide +HV, +LV, TEL and GND. It is my guess that the missing drawer on your R-13 might have looked like the MX-19/ARC-5 adapter on the outside, except with a 6-contact, instead of three contact, A.R.C. receptacle.

You must have contacts at radio shops at McCarran. Those people should have literature on A.R.C. stuff going back a long way. A.R.C. equipment was used on light twins, mostly.

Good luck, Dave.

Ken Corwin (kenc@smartdocs.com)

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: DUBE2@delphi.com
Subject: R27\ARC-5
Message-ID: <01I1X6G1E0U89FTQI2@delphi.com>

The source from which I got the ART-13 and BC-610 also had an R27/ARC-5.
Anyone need one of these?

73,
Dube
dube2@delphi.com

5AP

The wear on a hypothesis is proportional to the distance of the
extrapolation from the experimental results - Eli Brookner

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: R390A Help Need
Message-ID: <01BB090F.7C9F6180@juneau_75.dialups.ptialaska.net>

Hi URR fans-
The patient is a Motorola order 363-PH-54, serial #44. Stock.

Symptom is no bands 0 to 8mc. on warmup and lately occasionally dropping
out after warm-up. Can sometimes restore by jiggling between MVC and AVC.

TM sent me directly to V202 (6C4 1st mix) and V207(5654 1st xtal osc). Both
have been changed out twice. Test Point E209 is -6.4 when op o.k. and near
zilch when fubar. Just like the book says. T207 is peaked right on.

Have cleaned HR202 xtal oven inside and out, cleaned pins and socket.
Resistance of R213 close to 1 meg. Haven't pulled chassis to check
C324/5/6. R211 o.k. to 150 supply. (These are 1st osc.grid compos).

Questions:

- (1) Have I missed any known suspects in the neighborhood (or beyond)?
 - (2) Should I bite the bullet and admit that Y201 (the 1st osc xtal) is the
OJ here? Yes the oven works fine and constant.
 - (3)Where to get replacement xtal for Y201, the 17 mc. 1st osc. rock?
 - (a)what is real stock number?
 - (b)what are characteristics of this rock (series res? capacitance?,etc)
for purposes of ordering a sub from JAN or whoever?
 - (c)have I missed a listing of it in Fair cat? They seem to have only
the osc. less xtals and the individual Mc. band xtals (A,B,C,etc).
- And-the PiezoDeResistance Query- I was building up to (drum-roll please.....

Has anyone got an R390A 1st osc xtal Y201) I can buy, trade for?

Many Thanks in advance. Jim Dillon WL7CMQ Beadgal@ptialaska.net
Also still Desperately Seeking Green-Eyed Thirtysomething Ladies.
(Magic Eye Tube sets).

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Michael.J.Knudsen@att.com
Subject: Re: radio books
Message-ID: <9603041946.AA21868@bock.ih.att.com>

Just to put in a good word for "FM Simplified" -- this book is terrific!
I got it for a buck at my local lib's tossout table. It's a very complete
exposition on practical radio theory, and isn't afraid of vector phaser
diagrams and some math when it helps the cause.

Most of the stuff in it is applicable to all rx, not just FM.

It also describes in some detail the various exciter and TX systems.
Did you know Armstrong's original system used balanced modulator
and quadrature carrier addition? In the early 30s? Geez, the Major could
invent anything! I learned that from this book. No, mine is not for
sale, but Steve's is. 73, mike k aa9rg

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: buska@aaic.advantest.com (d.buska@advantest.com)
Subject: RCA 6012 Tube?
Message-ID: <96030420264202@aaic.advantest.com>

I was going thru some of my boxes of loose tubes tonite and came across two
RCA 6012's. I checked the available RCA receiving and transmitting tube
manuals I have with no luck. Can't even find it in any substitution books.

This tube is a octal configuration and has the same envelope size as a 6146,
but it has no plate connection on top. It only has physically 6 of the normal
8 octal pins at the base. Very rugged structure inside as well. Beside the
6012 label on top it contains the RCA logo on the side and the code 71-04
(perhaps a date code).

Would be interesting to see what they were for and possible BA type projects
I could put them to use in.

73
Don N900

d.buska@advantest.com

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Scott_Johnson-AZAX60@email.sps.mot.com
Subject: RE>Re- Mystery tubes
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

RE>Re: Mystery tubes

3/4/96

I think they also went by the name "Decatron" Burroughs?

Scott

> They are : GC10A, GC10B, GC10C, GC10D, GC10P, GS12B &
> GS12D.

These are glow-transfer counter tubes. They were used in early frequency and event counters. Typical count rates to about 20 kc.

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: "Ian Abbott" <ian@emerald.gene.com>
Subject: Rendezvous at Foothill swap? (CALIFORNIA)
Message-ID: <9603041342.ZM27517@emerald.gene.com>

Hello-

Apologies to those not residing in the San Francisco Bay Area!

A number of postings have noted that the Foothill College swapmeet season begins this Saturday, March 9. Some of you guys appear to know each other, but I'm sure I'm not the only one who'd like to meet some fellow BA enthusiasts in person.

Of course we'll all be there at 0-dark-thirty looking to acquire heavy metal treasure, but it might be better to meet after the sun comes up and we quit looking into arriving cars with our flashlights.

Would anybody care to meet by the Red Cross donut 'n coffee truck at, say, 0800? Wonder how we'll recognize each other, unless of course we're all standing around holding Hallcrafters', ARC-5s, etc,

and then it would be easy.

Check your flashlights and set your alarm clocks!

Ian Abbott

--

Ian E. Abbott | abbott.ian@gene.com
Genentech, Inc. | Voice: 415.225.1793
Fermentation/Product Recovery | Pager: 415.655.9160
Information Systems Group | Fax: 415.225.5947

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: aevang@cris.com (alevangelista)
Subject: Re: Rendezvous at Foothill swap? (CALIFORNIA)
Message-ID: <199603050320.WAA26293@franklin-fddi.cris.com>

Ian / Gang,

> Would anybody care to meet by the Red Cross donut 'n coffee
> truck at, say, 0800? Wonder how we'll recognize each other...

How about a BA logo which could be silk screened / embossed / printed /
(tatooed??) and proudly displayed to the world?

I imagine that half the fun would be the debate regarding the selection and
evaluation of the image.

Some thought starters:

R-390 related image
TU-5-B ID Tag
USN inspection stamp
BC-348 / 375
some nautical theme / pennant? - 'Beaverton Oregon Yacht Club'??

73, Al Evangelista (KB8WYN) aevang@cris.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Andy Howard WA4KCY <102452.362@compuserve.com>
Subject: Sandblasting BA cabinets
Message-ID: <960303180640_102452.362_DHT71-2@CompuServe.COM>

Gang,

On the subject of whether or not to sandblast vs. beadblasting I would offer this comment. I regularly sandblast cabinets for repainting. I use the local monument (tombstone) outlet. They use sandblasting to cut the letters into the marble monuments. The sand that they use is a very special grade that is very fine and leaves a good finish on the metal. I go over this with very fine steelwool and the finish that I get is great. A good coat of primer water sanded and you are ready to apply the paint.

Andy, WA4KCY
AMI #9

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: JimP911@aol.com
Subject: Re: Sandblasting?
Message-ID: <960304205306_341084336@emout05.mail.aol.com>

Sand blasting is too harsh a method for the soft metal most BA's are constructed from. Bead blasting is the method used by collectable car restorers. It is easier to control and does not pit the surface of the metal.

If you have a Porsche restorer in your area they will definately have a bead blaster. This method can also be used to remove paint from plastic cabinets without harming the plastic. Try that with Sand!

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Michael.J.Knudsen@att.com
Subject: Re: SCR 625 mine detector FS
Message-ID: <9603041959.AA21896@bock.ih.att.com>

In TUsIa or Sarajevo that would be a great price!
Not so useful in Kobnhavn (thank God :-) 73, aa9rg

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: "Richard L. Duell" <rduell@iac.net>
Subject: Should I Keep This?
Message-ID: <199603050136.UAA10453@great-miami.iac.net>

I just acquired an old military rack mounted power supply that has a schematic mounted on the bottom plate with the designation RA-94-A. It has a humongous transformer, but the two rectifier tubes are a VT-145 and a VT-80 and the HV filter capacitor is rated at 600 volts, so its probably not good for more than 350 volts. No values are on the schematic. I'd guess it's pre or early 1940s.

Before I go to the trouble of cleaing it up, putting it on the variac, etc., I'd like to know what it is a part of. If no one knows, then it will probably go on a shelf in the barn.

Anyone recognize the designation RA-94-A?

73, Rich - W5VDU

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: "Nickels, Bob" <RNickels@P16.IL50.micro.honeywell.com>
Subject: SX-28 cabinet
Message-ID: <313B3853@mail_gw.micro.honeywell.com>

One of the drawbacks to collecting BAs is the fact that more often than not, I end up with a piece of gear that I've seldom, if ever, seen "in the flesh". Such is the case with the SX-28 which I picked up cheap, but less cabinet. Then, last year, I found a parts radio, even cheaper, but (I thought) with the original cabinet. Now I just realized that while the style of the cabinet is correct, the color is wrong - it is black, not grey as Hallicrafters intended.

So I'm wondering if someone can *describe* the color of the original cabinet to me! ("Similar to ____" would probably be close enough. Then, I'd appreciate any comments on the idea of painting over the black wrinkle paint with grey to change the color without losing the wrinkle texture. Will this work, or will I just end up with a ruined cabinet (of the right style!)

Of course, I could just leave it alone, but how likely is that, now that I know what the "right" color is?

73, Bob - KE0T

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: willo@greatlakes.Central.Sun.COM (Doug Willoughby - Area Systems Engineer)
Subject: Re: SX-28 cabinet
Message-ID: <9603042037.AA10754@youcon.Central.Sun.COM>

My SX-25 (Manufactured 1/7/1943) is painted in a dark brown wrinkle (or crinkle) coat that I'm pretty sure is original.

The paint is actually in need of touching up. So I'd like to ask this group how you go about touching up wrinkle coat so it looks original? Any ideas?

Doug

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: SX-28 cabinet
Message-ID: <m0ttkn9-000Tx0C@spider.lloyd.com>

At 02:53 PM 3/4/96 -0600, Doug Willoughby - Area Systems Engineer wrote:

>
> So I'd like
> to ask this group how you go about touching up wrinkle
> coat so it looks original? Any ideas?
>

Assuming the number of nicks and chips in the wrinkle is relative minor: I've had good results spraying a light color coat of non-wrinkle paint right on tope of the wrinkle finish. By keeping the quantity of paint low, the texture of the underlying wrinkle finish is mostly preserved. Surprisingly, the small nicks and missing paint chips become difficult to find once they are the same color as the surviving wrinkle.

If the wrinkle finish is too far gone to touch up, the solution must be to remove all the old paint and apply new wrinkle paint. Can't remember if AES has wrinkle paint, but I do remember that The Eastwood Company does. Eastwood isn't a radio supply source, in general; rather it supplies tools and materials generally used in the auto restoration hobby. If you need the address/phone number, let me know....it's here somewhere.

73,

Jim - km6nk

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: dt@scotborders.co.uk (David Topham - Arts & Science)
Subject: Re: SX-28 cabinet, colo(u)r matching
Message-ID: <9603042010.AA18403@scotborders.co.uk>

Hi gang,

Bob - KE0T said:

>So I'm wondering if someone can *describe* the color of the original cabinet
>to me! ("Similar to ____" would probably be close enough.

When someone gets a paint job done perhaps they could ask for the "Pantone Reference" of any paint mixed and archive it appropriately. The Pantone (trademark) system is more or less universal and independent of any particular brand of paint, and provides a good starting place for matching.

73 David Topham GM3WKB dt@artscience.scotborders.co.uk

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Michael.J.Knudsen@att.com
Subject: Re: SX-53 BF0, manual needed
Message-ID: <9603041929.AA21832@bock.ih.att.com>

Oops -- u yes, tnx fer reminding us that not all IFs are around 455 KC!

I guess the SX-53 is like a lot of other late Hall's, and the NC-270, in using what amount to alignment-adjustable coils with their slug screws sticking thru the front panel and little knobs on them.

For some of these, the "adjustment procedure" is:
Loosen the knob setscrew. Stick a screwdriver in from the rear and engage a slot in the ferrite slug. Twist it till it's centered. Then tighten the set screw.

Trouble is, you usually can't get to the setscrew except when the knob is in some odd position, so you have to try a few times to get it right.

Moore's book is worth it just for its listing of IF freqs!
73, mike k aa9rg

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: Tek 543 and selenium rectifiers
Message-ID: <199603031748.LAA22981@zoom.bga.com>

As Johnson_Dan@aac.com said

>

> I Tek 543 followed me home from the Vienna Winterfest a week ago for the
> exhorbitant sum of \$25. The 'scope seems in beautiful condition, clean and

> works great, with 1X probe and ScopeMobile. To be honest, I really wanted
> its 1A1 plug in and have swapped the CA out of the 556. The 543 is just
> too beautiful to let rot.

You got a hell of a deal, if it's clean and working, too. The 543 and 533 are excellent bench scopes for audio/radio work. I'm copying most of your post and putting answers in, because I think you've got some "frequently-asked questions" here.

>

> A while back, there was a post suggesting that 543s should be passed by if
> they still contain selenium rectifiers.

Stan's book suggests that. However, I wouldn't turn down a really clean scope just because it's got seleniums in it. You can replace them with silicon rectifiers, but have to add resistors in each of the supplies along with the new diodes. The 533 and 543 were introduced in 1958, 4-5 years after the 531/541, so have many of the "A" scope improvements in them. As I recall, some (or maybe all) 533/543 were made with silicon diodes originally.

>

> 1. How does one tell the difference between a 543, 543A, or 543B?
> Is it clearly marked? This one says just "543" on the front and
> has a 4x10 reticule on its CRT.

Yes, above the CRT it says "TYPE 543 OSCILLOSCOPE" on the front panel. The Tek scopes are all very clearly marked with a model number here. All Tek scopes have this model designation, a Tek "meatball" logo, and "Tektronix, Inc. Portland, Oregon U.S.A." etched on the front panel. If you see a scope that looks like a Tek scope, but doesn't have these, you are looking at a Hickock or Lavoie "Tek wannabe" scope.

>

> 2. How does one identify selenium rectifiers by inspection? (And
> where does one look in a 543?)

On all the 530/540/580 series except 549, the internal layout is the same. Take off the right side cover (looking from the front). There is a sheet aluminum web that runs, vertically, through the whole scope at the center (top is under the bar that has the handles on it). The rectifiers are mounted on that web, right in the middle. Seleniums are big square finned stacks, about an inch square, standing up an inch or more, and there are a lot of them. Scopes that were converted with Tek kits to silicon diodes have the diodes and resistors mounted on a plate as an assembly that is mounted on the web on the right center. Scopes originally built with silicon diodes have ceramic strips with the diodes mounted on the web, and a flat plastic cover with markings for which power supply is which over it.

Probability is that any of the scopes that originally had seleniums in them got a Tek mod kit installed 20-30 years ago. 530/540 series scopes generally worked for a living for 10-15 years, and the selenium

supplies were a weak point, so it's very likely these were replaced with a kit while the scope was in regular service.

The original 581/585 (introduced 1959) had silicon diodes in it. All of the scopes with the "A" or "B" designation had silicon diodes, as did the 544 and 547. Tek started using silicon diode rectifiers in 1958 (310A), and moved fairly quickly to switch to using them in all products. The "A" changes in 531/5 541/5 were made in 1959---new CRT design, new one-knob sweep time switches, one-knob calibrator control, and a bunch of other things, and the move to silicon rectifiers was a part of this change on these scopes. The 533/543 were introduced with the new CRT and some of the other changes, and not changed to "A" scopes until around 1961. For manufacturing date, there is a date stamped on the fan motor, which is probably 60-90 days before the build/ship date for the scope.

>

> 3. Should one be scared of these rectifiers? Is it because they are
> difficult to find, or when they fail, do they take other components
> with them?

They generally don't take anything with them when they fail. However, if they short out and get hot, they release poisonous fumes, and are poisonous to handle when hot. Most common failure is an increase in forward resistance, which means that the power supplies will drop out of regulation on low line and, as they get worse, won't regulate at all. The other common failure is short circuit. The scope will quit working, and begin to emit fumes that smell like rotten eggs, if the fuse doesn't blow first (it may not). Shut the thing off and air out the room. A few fumes won't hurt you, but you don't want any serious exposure to them. Use gloves when you handle the selenium stacks on such a failure.

Replacement is always with silicon diodes.

>

> 4. Can anyone suggest a reference for reworking a circuit to eliminate
> these? Is it as simple as finding another solid-state equivalent?

Tek made replacement kits that are no longer available. If you actually need to make your own "kit," you'll need to add some power resistors, depending on the model, and make up your own setup of terminal strips, etc. 1N4005 diodes will work in any position in these power supplies. You will need twenty of them (five bridges). Mouser and others also sell bridge rectifier packages---1 amp 600 volts is adequate. The resistors are needed to compensate for the lower forward resistance of silicon diodes, to bring the power supplies into regulation on high line, as well as to limit maximum instantaneous current. I have some of the resistor information (it varies between models) and Deane Kidd can probably supply the mod kit instructions for one of the kits, which show the resistors to use.

Alternatives are to find a junker scope that has the mod kit in it, and

pirate the kit for your scope. Also, if you have some sheet aluminum, shears, and a brake, you can make a plate to mount the parts on.

Note that the power transformers used on selenium scopes were different from those used on the silicon-original scopes. You use your old power transformer, but the circuits and parameters are different from those used in production scopes with silicon rectifiers installed. Don't try to copy the manual circuit for a 543A. Get the Tek mod kit info.

>

> I am going to purchase Stan's book. I am starting to feel signs of a
> slight addiction. My XYL is being tolerant but will *NOT* be happy if this
> keeps up.

>

A copy of Stan's book is mandatory if you are going to do anything with old Tek scopes.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Tek 543 and selenium rectifiers
Message-ID: <199603041254.EAA04735@desiree.teleport.com>

>I was going to ask Stan or Hank personally but, at the risk of starting
>another Tek thread (well *I* get a lot out of them, anyway), I'll ask
>publicly, because I know zip about selenium rectifiers. (Where is Warmly,
>Padgett when you need him?)

>

>I Tek 543 followed me home from the Vienna Winterfest a week ago for the
>exhorbitant sum of \$25. The 'scope seems in beautiful condition, clean and
>works great, with 1X probe and ScopeMobile. To be honest, I really wanted
>its 1A1 plug in and have swapped the CA out of the 556. The 543 is just
>too beautiful to let rot.

>

>A while back, there was a post suggesting that 543s should be passed by if
>they still contain selenium rectifiers. Here are some questions, and I
>would be most grateful for public or private help:

>

> 1. How does one tell the difference between a 543, 543A, or 543B?
> Is it clearly marked?

Yep, if it says 543 on the front panel, it is a 543. A 543A will say "543A" on the front panel and a 543B will say "543B" on the front panel.

> This one says just "543" on the front and
> has a 4x10 reticule on its CRT.

It is actually called a "graticule" and 4x10 is the right size for a 543 or 543A. The 543B has the graticule scribed on the inside of the CRT in the plane of the CRT phosphor and it is 6x10. (543B has 50 percent more screen area.)

> 2. How does one identify selenium rectifiers by inspection? (And
> where does one look in a 543?)

Selenium rectifiers are located on the vertically oriented bulkhead in the center of the instrument. They are reddish-brown in color and look like a stack of square metallic plates an inch or two on the side and an inch or two high. Yours may have been modified out already in which case you should look for 16 silicon diodes mounted on ceramic strips which are mounted on an aluminum bracket about 6 inches square with some wirewound resistors.

> 3. Should one be scared of these rectifiers? Is it because they are
> difficult to find, or when they fail, do they take other components
> with them?

Well, I have heard that sometimes when they fail they give off a little toxic gas, but I don't think that is a serious problem. The main thing is that they develop a high internal voltage drop with age and eventually they won't produce enough voltage to run the scope properly.

> 4. Can anyone suggest a reference for reworking a circuit to eliminate
> these?

Yes. Tektronix made kits to replace them and these kits are well documented.

>Is it as simple as finding another solid-state equivalent?

That's part of it. The rest of it involves installing proper values of series resistors since solid state diodes have less internal voltage drop than NEW seleniums and Tek scope power supplies have to have voltage coming from these rectifiers that is controlled over a fairly narrow range in order to have the scope power supplies regulate properly.

>I am going to purchase Stan's book.

Thanks. I still have several hundred copies.

>I am starting to feel signs of a slight addiction.

I know THIS problem VERY well! I have no solution, however.

>My XYL is being tolerant but will *NOT* be happy if this
>keeps up.

As long as I keep my scopes in my shop, my wife is happy . . .

Stan w7ni@teleport.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: SCOTTPAUL@aol.com
Subject: Tektronix and Selenium Rectifiers
Message-ID: <960303170938_437061026@emout05.mail.aol.com>

My experience with seleniums is that when they fail, their voltage drop just goes up. The can (rarely) catch fire and the smoke is bad for you, but it stinks like hell-rather like H2S-so you won't be tempted to breathe much of it.

I replaced the seleniums in my Tek 310 because I needed the room for a separate filament transformer for the CRT heater. The main transformer had developed leakage to ground, taking out the HV. Silicon diodes work fine-I generally use 1N4007s, which have 1A 1000v PIV rating, adequate for up to 300v supplies.

I probably wouldn't replace them if they are working OK.

The look like stacks of about six square painted metal plates 1-2" on a side, mounted by a bolt going through the center.

And that's my 1/4 byte worth.

/scott robinson
scottpaul@aol.com

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Duncan Cadd <dcadd@luc.ac.be>
Subject: Re: Thoughts on first receivers
Message-ID: <9603041500.AA31972@alpha.luc.ac.be>

Greetings, Folks, from a dull and cool Diepenbeek in N.E. Belgium!

Allan Fritsche said:

>How come we never hear from our friends in

>Europe, Asia, Africa or the Aussies too much about their young experiences and
>how they got started.

I recall answering a similar question way back last year, I shall attempt
"to avoid undue repetition" as they say . . .

When I was a wee laddie of maybe six, my Father produced a small plastic box, some curious looking things which turned out to be a small ferrite coil former, a variable capacitor, a diode and yards of silk covered copper wire. This was cobbled together into a working crystal set which worked admirably on the BC bands when connected to a good earth/aerial. A later version which I recall taking to school even as recently as the early 70s used similar construction. About that time, Dad and I discovered a large plastic bag up in the attic containing piles of glass things which he had temporarily forgotten about, and which included heaps of British base four prong triodes, some of which still worked. Searching through the drawer of his desk, he produced a small tin which contained some lumps of silvery stuff. "I made these on the kitchen stove when I was about 12" he said, with obvious pride, no doubt due in part to surviving the parental displeasure which it must have occasioned back in 1928 at the sight and stench of melting and reacting lead and sulphur. One of these DIY crystals was cajoled into a crude homebrew holder and suitable probing with a fine wire in a simple circuit soon showed that it worked. It did not take long before some valves and batteries and a 2V vibrator HT psu were pressed into service as an AF amplifier. It gave pretty good results from a small speaker and it found a niche for itself on the science display at the school open day that year. Since those days, my interest in electronics has waxed and waned, but returned during a bout of unemployment a few years ago, and by the means of encouragement from a local ham, G70GN (thanks, Dennis!) I got my ticket. The small crystal set my Father and I put together in the mid-60s I gave to Dennis (he'd never got one to receive anything!) but I still have the bag of valves, the DIY crystals, and the speaker. The output matching transformer (33:1 ratio) some B7G base 1.4V valves and the 2V vibrator psu are here in Belgium with me now, still giving me entertainment in the evenings, together with an old American-made stethoscope-style headset of 500 ohms.

> My other young experiences were mainly to do with sleuthing out the
> forbidden experiments from the "deliberately left blank" pages of the book
> for my chemistry set and performing them at sensibly large scale.

Ah yes, the process of hammering moistened home-made gunpowder into a solid block in a wooden form and then granulating it, and igniting a generous teaspoonful behind a length of bamboo cane in a homebrew hand cannon made from chrome-plated brass towel rail, and after the

unexpectedly loud report, and the windows had stopped vibrating, the sensation of surprise at the bulge in the tube. The sudden shock of awakening at around 2-3am coughing and spluttering because of the nitrogen oxides filling the bedroom from the nitration of glycerine in the jam jar on the bookshelf which had taken a turn for the worse. Sitting expectantly with my Mother in the living room and wondering whether the dratted thing that I'd perched on the swing out the back was actually going to go pop and jumping simultaneously with her when it did "Ah, must've been a car backfiring . . .", plus the homebrew fulminate, cyanide, gun cotton the list goes on and on.

It may not be BA, but it was hot, excessive in every way for what might reasonably have been desired, potentially lethal and didn't give a tinker's cuss for the product liability lawyer. On reflection, it must run in the family. My Father lost his first job in a radio shop when he connected a spark coil to the moistened wooden seat of the WC and 'shocked' the boss out of reading his morning newspaper one day, just to relieve the boredom . . . the volts, the jolts, the end, as they say.

No wonder our kids turn to sniffing glue, there isn't any 'sensible' FUN anymore.

73,

Duncan ON9CHU / GOUTY G-QRP 8117 dcadd@luc.ac.be

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: Re: Thoughts on first receivers
Message-ID: <960304174723_70401.134_IHD151-2@CompuServe.COM>

Duncan,

Jeese! You ARE bringing back some OLD memories! One of my prized possessions when I was a kid was the book "the Boy Electrician" I stole from the library. (I used to keep checking it out continously until I convieniantly "lost it")

This along with my trusty Model "T" Ford spark coil! (In fact I owned three of them!) No end to making sparks, trying to communicate with a buddy of mine with "spark" across the block (this in 1945 when spark was quite illegal!), and using it to electrocute bugs, beetles and lizards. We even shocked a cat or two with it.

(A tin of opened sardines connected to a HT lead to the coil made a good "trap"!)

We played "war games" in the neighborhood carrying canteens, packs, bayonets, etc. The haversacks made good storage for clay "hand grenades"! One chap, who was my mate in 'foul' deeds in radio, had a brother who brought back 3 Japanese

Arisaka bolt action rifles from overseas. It was GREAT 'playing war' being able to use a REAL rifle, snapping the action etc. No one really took any serious notice then.

It NEVER entered our heads to chamber a LIVE round, which I'm sure we could have found somewhere! Today, we would be surrounded by SWAT teams, overflowed with helicopters and surrounded by BATF/FBI agents in Ninja garb all shouting "You are surrounded!..etc."

You ARE RIGHT! No place for a young lad to have any fun anymore as everything is forbidden or banned or taken way to seriously! All this and WE didn't have the "telly" to get ideas from!

My real 'first' interest in 'amateur radio' came from two things. One, a 'build-it-yourself' (without any solder) crystal receiver. I spent many a night going to sleep as a small boy with a pair of headphones clamped to my head!

Next, an episode in a "Captain Marvel" comic book, where radio amateurs helped Capt Marvel catch the crooks. I started looking for more information and alas....became one finally in 1951 after "bootlegging" with my same "radio mate" across the block for a couple of years! Mostly with 5-10 watt one tube transmitters and regen receivers.

Strange how one's interests run along the same lines as others! Especially as regarding the 'chemical experiments'!!

73,
Sandy W5TVW

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: bill@texan.frco.com (William Hawkins)
Subject: Re: Thoughts on first receivers
Message-ID: <9603041828.AA14683@texan.frco.com>

We're drifting away from topic, here, but a shocking youth seems to be common to many of us. So I wonder, is a shock necessary to get serious about this hobby? Does temporarily being connected to the Grand Coulee Dam (as someone so picturesquely put it) 'energise' us?

I'd like to hear privately (so as not to clog the list) from anyone here who never recieved an electric shock, or knows someone who got shocked and never went near electricity again (electrocutions excepted). I'll post the results back to the list.

Bill Hawkins bill@bvc.frco.com 612 895-2085 Minneapolis, MN USA

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: Thoughts on first receivers
Message-ID: <199603042229.JAA22795@vifp.monash.edu.au>

Hi gang,

Allan Fritsche said:

>
> >How come we never hear from our friends in
> >Europe, Asia, Africa or the Aussies too much about their young
experiences
> and
> >how they got started.

>
It's been most interesting reading about others' introduction to this wonderful obsession. I started very young as well, in fact I'm told I "took apart" my first radio at such an early age I can't even remember it. My parents didn't see this is an early symptom of what they later considered madness so they didn't try to do anything about it until it was way too late.

The radio was followed by sundry other mechanical and electrical devices (clocks, bicycles etc etc) until a few years later when I realize it was more fun putting them back together again and nagged my parents for what seemed years to let me have a soldering iron. I started SWLing with an old valve SW radio that I modified extensively (2nd IF, BFO, RF stage etc etc) and went on to play with whatever old iron I could get. There was a wonderful store in downtown Melbourne full of tantalizing equipment (in the late 50s, early 60s) but the aforementioned recognition of insanity had dawned on the elders and I was greatly discouraged from going there. I got my first VHF only amateur license at 16 which was the minimum age then and went onto 2M with an AM rig called a TR1936 - an airforce BA which served as a testbed for lots of modifications. This was followed a few years later by a full license and HF operation with various other rigs. At the moment I use a FT101E (tube finals) into a homebrew tubed linear, and an R390A as the other receiver.

Along the way there similar experiences with chemistry sets and explosives as well as sundry other mechanical and electrical devices.

I think those of you that had parental encouragement were extremely lucky.

73

Morris Odell VK3DOC
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: SCOTTPAUL@aol.com
Subject: Tubes
Message-ID: <960303163607_437037939@mail02.mail.aol.com>

I think it's always worth posting the list of available tubes, especially for NOS stuff. Someone wants them, why, I may even want some of them!

If the list gets uncomfortably long to post, offer it to the group via email to interested poeple.

scott robinson
scottpaul@aol.com

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: WANTED: AUDIO TRANSFORMERS mfg. by UTC
Message-ID: <199603042038.NAA29422@atd.atd.ucar.EDU>

I'm looking for audio transformers manufactured by UTC. The part numbers I'm looking for are:

LS-10, LS-10X, LS-47, LS-47X, LS-56

Any help would be appreciated.

'Thanks,

Chip Owens, NW00
owens@stout.atd.ucar.edu

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: what a weekend!
Message-ID: <9603041838.AA05602@netman.ENS.TEK.COM>

Gang,

Was an interesting weekend. I traded an SX-71 Hallicrafter for a sorry looking National NC-183. I had repainted, recapped and replaced

about 1/4 of the resistors in the Halli to get it up to snuff but I figure with two of them I could let one go for a new experience with a National. The NC-183 is in sorry condition with the front panel 'repainted' to put it nicely...Bad job! But this thing is as big as my SX-62A with 16 tubes or so so it should be a good receiver and I do like bringing them back alive. It is complete with good dial glass so that is the big thing. And after picking up that NC-57B at Rickreal I became a National fan. Now how do I pull a deal for a National HRO 50 or 60???

Been working on my SX-62A and you would be amazed what aligning the 455KC and 10.7MC IF's did for this rig. I suspect that some wannabe was messing with things. From no FM and no/almost no SWBC to I didn't know they were there. I had always been a little hesitant about messing with a 10.7MC IF but it went great. Didn't do the tweeking part about the crystal filter sharp and wide adjustment yet because I don't quite understand it but seems OK so far. Maybe when I understand what there trying to do better.

I take my hat off to the people who can clean one of these chassies up to look like almost new. I guess I don't have the nack even with steel wool, tooth brushes and mineral spirits or a good dish detergent and sponge.

The cabinet I finally took down to bare metal (most) and used sanding, paint remover, turpentine and detergent to make sure I got whatever was causing the primer to 'curtle'. I painted the cabinet flat black (plasticoat) and used grey primer plasticoat with clear lacquer over it. Judging from the old paint that should be pretty close to original. Still haven't quite got the knack for making a perfectly smooth finish but I guess I'm going to have to take radio cabinets down completely to bare metal to do it. The old paint patches still show up slightly if you look hard. Even using 150, 100 and 400 grit sandpaper.

Also sold my non-boatanchor FT-980 and found someone who might do a swap for a pair of 8874 pulls for my MLA-2500 (modification time). Good weekend! That swap net on 7240KC does come in handy (if you can get past the QRM).

Terry
KI7M

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: what a weekend!
Message-ID: <Pine.ULT.3.91.960304133133.18898B-1000000@admin.aurora.edu>

On Mon, 4 Mar 1996, Terry Burge wrote:

> Been working on my SX-62A and you would be amazed what aligning

> the 455KC and 10.7MC IF's did for this rig. I suspect that some wannabe
> was messing with things.

Gee, I thought you were SUPPOSED TO TIGHTEN all those loose screws in those square cans!

E-mail broehrig@admin.aurora.edu

73 de Bob, K9EUI

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: Re: what a weekend!
Message-ID: <9603042021.AA09472@netman.ENS.TEK.COM>

Bob,
 Yep, that sounds close.
Terry
KI7M

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: Andy Wallace <wallace@mc.com>
Subject: Re: what a weekend!
Message-ID: <9603042049.AA02434@taku>

Great post, Terry. Don't worry about still being on the learning curve -- we all are. I have a Johnson Invader 200 which needs new grey wrinkle paint and I am going to bite the bullet and do it over the summer or spring. The big pain is the front part of the tx means I have to disassemble everything from the front panel to get the front off. I will probably take pictures as I go -- there are some complicated linkages.

On the chassis, steel wool may cause shorts if you don't find all the little bits! Be careful. I generally don't care too much about that, unless the corrosion is affecting the operation. (Don't forget all those star washers under terminal strips, they should be GND, not gnd-thru-rust....) I like Drake stuff a lot, and their copper plated chassis don't survive well, sometimes. But it is nice to find a clean one -- I just don't fret too much about not having one.

Someone on BA said that everytime you use a radio with a yellowed dial, it reminds you that you are using a piece of history. Everytime you use a radio with a washed-off dial, it reminds you what a boob you were to try to clean it. Don't wash dials unless you have to, and even then be careful. Some manufacturers use paint which dissolves in water!

I don't blame you for wanting an HRO! I have a -50 and would never sell it. I adore the styling of those things. Still looking for coils for mine..... and it needs a recap job, too.

73, happy restoring!
--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Mar 4 04:44:54 1996
From: jcall@sirius.com (Jim)
Subject: What Did I buy ?
Message-ID: <199603040535.VAA25675@moon.sirius.com>

This is my first posting so I hope I've got the right address for the list. Today I went to the Livermore Ca. swap meet and saw a few new 3 tube somethings on small steel navy gray painted chassis. They had a 200 KC crystal, 2 metal can transformers with 200 KC and 50 KC stamped on the side and various mica, oil and other caps etc underneath as well as an 8 prong jack. So for \$2.00 I bought one still sealed in its box. When I opened and examined it at home it had a tag "completed Sep 27 1944" and the ID 8Q-2CFI-MCW UNIT with a US Navy anchor symbol stamped on the chassis and label. Does anyone know what gear it goes with ? My guess is that its a crystal calibrator for some WWII receiver.

I also bought an S-38 for \$30 in good shape (not original knobs) which seems to work pretty well. One item I just missed was an RME 6900 in decent cosmetic condition for asking price \$135 (it had not been on my want list until I saw it there, turned the knobs and began to admire its features and front panel). Someone else admired it faster than I did though. I also noticed an NC-183 ,cosmetically B-, which went for \$70 and an SX-28 Super Sky rider (rack mount-no case) which could be had for <\$100 but the innards were rather rusty.

There were some other BAs including a Collins 75S-3, 32S-3, 312B-4 and Power supply with a 30L-1 for \$1200 firm , a Drake 2B with Q mult. spkr for ,I think, \$145, and some other Drake gear which I did not have an interest in and it was not cheap. Nothing else very notable.

Well , next sunday is Foothill .

Jim Carrington KD6JTY

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: kb0qil@kb0qil-uhf.ampr.org
Subject: What is 'rec.radio.swap' ??
Message-ID: <1072@kb0qil.ampr.org>

Hello all, de Dan.

I have seen several references to 'rec.radio.swap'. Can someone please tell me what is it and how it can be accessed.

Thank you for your help.

73's Dan

From boatanchors@theporch.com Mon Mar 4 13:56:19 1996
From: Bob Duckworth <rmd@ka4ybr.ka4ybr.atlanta.com>
Subject: Who had collins mechanical filters?
Message-ID: <199603041718.MAA20987@ka4ybr.ka4ybr.atlanta.com>

I went to mail your check and found I'd lost my notes.

Apologies to list.

BC348 question.

What do you guys use to refinish the knobs. Paint is peeling on mine.

PRC47 question.

What can I use for a LSB filter and does anyone have one.

-bob

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>
Subject: RE: Who had collins mechanical filters?
Message-ID: <313B4AA2@smtpgate.rfc.comm.harris.com>

Bob: I have several Collins Mech Filters @455 kc cf as well as USB and LSB filter sets in both Xtal and mechanical. Please contact direct at emg@rfc.comm.harris.com or 716.392.3088 73, Ed K2MP

From boatanchors@theporch.com Mon Mar 4 22:31:47 1996
From: MEC <danmec@inet.uni-c.dk>
Subject: RE: Who had collins mechanical filters?
Message-ID: <Pine.3.89.9603050049.A21589-0100000@inet.uni-c.dk>

I have a F 500 B14 , if anyone needs it.

73 rag oz8ro